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* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 FEB 27 New STN AnaVist pricing effective March 1, 2006
NEWS 4 MAY 10 CA/CAPLUS enhanced with 1900-1906 U.S. patent records
NEWS 5 MAY 11 KOREAPAT updates resume
NEWS 6 MAY 19 Derwent World Patents Index to be reloaded and enhanced
NEWS 7 MAY 30 IPC 8 Rolled-up Core codes added to CA/CAPLUS and
USPATFULL/USPAT2
NEWS 8 MAY 30 The F-Term thesaurus is now available in CA/CAPLUS
NEWS 9 JUN 02 The first reclassification of IPC codes now complete in
INPADOC
NEWS 10 JUN 26 TULSA/TULSA2 reloaded and enhanced with new search and
and display fields
NEWS 11 JUN 28 Price changes in full-text patent databases EPFULL and PCTFULL
NEWS 12 JUL 11 CHEMSAFE reloaded and enhanced
NEWS 13 JUL 14 FSTA enhanced with Japanese patents
NEWS 14 JUL 19 Coverage of Research Disclosure reinstated in DWPI
NEWS 15 AUG 09 INSPEC enhanced with 1898-1968 archive
NEWS 16 AUG 28 ADISCTI Reloaded and Enhanced
NEWS 17 AUG 30 CA(SM)/CAPLUS(SM) Austrian patent law changes
NEWS 18 SEP 11 CA/CAPLUS enhanced with more pre-1907 records

NEWS EXPRESS JUNE 30 CURRENT WINDOWS VERSION IS V8.01b, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.

NEWS HOURS STN Operating Hours Plus Help Desk Availability
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NEWS X25 X.25 communication option no longer available

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FILE 'HOME' ENTERED AT 15:06:58 ON 20 SEP 2006

=> file caplus

COST IN U.S. DOLLARS

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SINCE FILE

ENTRY

0.21

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SESSION

0.21

FILE 'CAPLUS' ENTERED AT 15:07:09 ON 20 SEP 2006
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FILE COVERS 1907 - 20 Sep 2006 VOL 145 ISS 13
FILE LAST UPDATED: 19 Sep 2006 (20060919/ED)

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=> s HAUSP and MDM2
51 HAUSP
2970 MDM2
L1 21 HAUSP AND MDM2

=> s l1 not py>2004
2147267 PY>2004
L2 6 L1 NOT PY>2004

=> d ibib 1-6

L2 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:63694 CAPLUS
DOCUMENT NUMBER: 143:224203
TITLE: Dynamics in the p53-Mdm2 ubiquitination pathway
AUTHOR(S): Brooks, Christopher L.; Gu, Wei
CORPORATE SOURCE: Institute for Cancer Genetics and Department of Pathology; College of Physicians and Surgeons, Columbia University, New York, NY, USA
SOURCE: Cell Cycle (2004), 3(7), 895-899
CODEN: CCEYAS; ISSN: 1538-4101
PUBLISHER: Landes Bioscience
DOCUMENT TYPE: Journal; General Review
LANGUAGE: English
REFERENCE COUNT: 54 THERE ARE 54 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:60430 CAPLUS
DOCUMENT NUMBER: 142:215611
TITLE: HAUSP is required for p53 destabilization
AUTHOR(S): Cummins, Jordan M.; Vogelstein, Bert
CORPORATE SOURCE: The Howard Hughes Medical Institute, The Sidney Kimmel Comprehensive Cancer Center, Program in Cellular and Molecular Medicine, The Johns Hopkins University Medical Institutions, Baltimore, MD, USA
SOURCE: Cell Cycle (2004), 3(6), 689-692
CODEN: CCEYAS; ISSN: 1538-4101

PUBLISHER: Landes Bioscience
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:900604 CAPLUS
DOCUMENT NUMBER: 142:4278
TITLE: HAUSP/USP7 as an Epstein-Barr virus target
AUTHOR(S): Holowaty, M. N.; Frappier, L.
CORPORATE SOURCE: Department of Medical Genetics and Microbiology,
University of Toronto, Toronto, Can.
SOURCE: Biochemical Society Transactions (2004), 32(5),
731-732
CODEN: BCSTB5; ISSN: 0300-5127
PUBLISHER: Portland Press Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:398363 CAPLUS
DOCUMENT NUMBER: 141:121361
TITLE: P53 apoptotic pathway molecules are frequently and
simultaneously altered in nonsmall cell lung carcinoma
AUTHOR(S): Mori, Shoichi; Ito, Genshi; Usami, Noriyasu; Yoshioka,
Hiromu; Ueda, Yuichi; Kodama, Yoshinori; Takahashi,
Masahide; Fong, Kwun M.; Shimokata, Kaoru; Sekido,
Yoshitaka
CORPORATE SOURCE: Department of Clinical Preventive Medicine, Department
of Thoracic Surgery, Nagoya University School of
Medicine, Nagoya, Japan
SOURCE: Cancer (New York, NY, United States) (2004), 100(8),
1673-1682
CODEN: CANCAR; ISSN: 0008-543X
PUBLISHER: John Wiley & Sons, Inc.
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:312009 CAPLUS
DOCUMENT NUMBER: 140:300911
TITLE: A dynamic role of HAUSP in the p53-
Mdm2 pathway
AUTHOR(S): Li, Muyang; Brooks, Christopher L.; Kon, Ning; Gu, Wei
CORPORATE SOURCE: Institute for Cancer Genetics and Department of
Pathology College of Physicians and Surgeons, Columbia
University, New York, NY, 10032, USA
SOURCE: Molecular Cell (2004), 13(6), 879-886
CODEN: MOCEFL; ISSN: 1097-2765
PUBLISHER: Cell Press
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2002:312567 CAPLUS
DOCUMENT NUMBER: 137:44608
TITLE: Deubiquitination of p53 by HAUSP is an

important pathway for p53 stabilization

AUTHOR(S): Li, Muyang; Chen, Delin; Shiloh, Ariel; Luo, Jianyuan; Nikolaev, Anatoly Y.; Qin, Jun; Gu, Wei

CORPORATE SOURCE: Institute for Cancer Genetics, and Department of Pathology, College of Physicians b Surgeons, Columbia University, New York, NY, 10032, USA

SOURCE: Nature (London, United Kingdom) (2002), 416(6881), 648-652

CODEN: NATUAS; ISSN: 0028-0836

PUBLISHER: Nature Publishing Group

DOCUMENT TYPE: Journal

LANGUAGE: English

REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s usp7
L3 40 USP7

=> s l3 and MDM2
2970 MDM2
L4 8 L3 AND MDM2

=> d ibib 1-8

L4 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2006:197641 CAPLUS

DOCUMENT NUMBER: 144:288171

TITLE: Molecular recognition of p53 and MDM2 by USP7/HAUSP

AUTHOR(S): Sheng, Yi; Saridakis, Vivian; Sarkari, Feroz; Duan, Shili; Wu, Tianne; Arrowsmith, Cheryl H.; Frappier, Lori

CORPORATE SOURCE: Department of Medical Biophysics, Ontario Cancer Institute, Toronto, ON, M5G 1L7, Can.

SOURCE: Nature Structural & Molecular Biology (2006), 13(3), 285-291

CODEN: NSMBCU; ISSN: 1545-9993

PUBLISHER: Nature Publishing Group

DOCUMENT TYPE: Journal

LANGUAGE: English

REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2006:156572 CAPLUS

DOCUMENT NUMBER: 145:119254

TITLE: Structural basis of competitive recognition of p53 and MDM2 by HAUSP/USP7: implications for the regulation of the p53-MDM2 pathway

AUTHOR(S): Hu, Min; Gu, Lichuan; Li, Muyang; Jeffrey, Philip D.; Gu, Wei; Shi, Yigong

CORPORATE SOURCE: Department of Molecular Biology, Lewis Thomas Laboratory, Princeton University, Princeton, NJ, USA

SOURCE: PLoS Biology (2006), 4(2), 228-239

CODEN: PBLIBG; ISSN: 1545-7885

URL: http://biology.plosjournals.org/archive/1545-7885/4/2/pdf/10.1371_1545-7885_4_2_complete.pdf

PUBLISHER: Public Library of Science

DOCUMENT TYPE: Journal; (online computer file)

LANGUAGE: English

REFERENCE COUNT: 47 THERE ARE 47 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2005:1056192 CAPLUS
 DOCUMENT NUMBER: 143:455700
 TITLE: Reciprocal activities between herpes simplex virus type 1 regulatory protein ICP0, a ubiquitin E3 ligase, and ubiquitin-specific protease USP7
 AUTHOR(S): Boutell, Chris; Canning, Mary; Orr, Anne; Everett, Roger D.
 CORPORATE SOURCE: MRC Virology Unit, Institute of Virology, Glasgow, G11 5JR, UK
 SOURCE: Journal of Virology (2005), 79(19), 12342-12354
 CODEN: JOVIAM; ISSN: 0022-538X
 PUBLISHER: American Society for Microbiology
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 REFERENCE COUNT: 43 THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2005:327153 CAPLUS
 DOCUMENT NUMBER: 143:2872
 TITLE: Structure of the p53 binding domain of HAUSP/USP7 bound to Epstein-Barr nuclear antigen 1: Implications for EBV-mediated immortalization
 AUTHOR(S): Saridakis, Vivian; Sheng, Yi; Sarkari, Feroz; Holowaty, Melissa N.; Shire, Kathy; Nguyen, Tin; Zhang, Rongguang G.; Liao, Jack; Lee, Weontae; Edwards, Aled M.; Arrowsmith, Cheryl H.; Frappier, Lori
 CORPORATE SOURCE: Department of Medical Genetics and Microbiology, University of Toronto, Toronto, ON, M5S 1A8, Can.
 SOURCE: Molecular Cell (2005), 18(1), 25-36
 CODEN: MOCEFL; ISSN: 1097-2765
 PUBLISHER: Cell Press
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2005:60430 CAPLUS
 DOCUMENT NUMBER: 142:215611
 TITLE: HAUSP is required for p53 destabilization
 AUTHOR(S): Cummins, Jordan M.; Vogelstein, Bert
 CORPORATE SOURCE: The Howard Hughes Medical Institute, The Sidney Kimmel Comprehensive Cancer Center, Program in Cellular and Molecular Medicine, The Johns Hopkins University Medical Institutions, Baltimore, MD, USA
 SOURCE: Cell Cycle (2004), 3(6), 689-692
 CODEN: CCEYAS; ISSN: 1538-4101
 PUBLISHER: Landes Bioscience
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2005:1997 CAPLUS
 DOCUMENT NUMBER: 142:111841
 TITLE: Gene expression profiles and biomarkers for the detection of depression-related and other disease-related gene transcripts in blood
 INVENTOR(S): Liew, Choong-Chin
 PATENT ASSIGNEE(S): Chondrogene Limited, Can.

SOURCE: U.S. Pat. Appl. Publ., 154 pp., Cont.-in-part of U.S. Ser. No. 802,875.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 31
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004265868	A1	20041230	US 2004-812702	20040330
US 2004014059	A1	20040122	US 2002-268730	20021009
US 2006134635	A1	20060622	US 2004-802875	20040312
US 2005191637	A1	20050901	US 2004-803737	20040318
US 2005196762	A1	20050908	US 2004-803759	20040318
US 2005196763	A1	20050908	US 2004-803857	20040318
US 2005196764	A1	20050908	US 2004-803858	20040318
US 2005208505	A1	20050922	US 2004-803648	20040318
PRIORITY APPLN. INFO.:			US 1999-115125P	P 19990106
			US 2000-477148	B1 20000104
			US 2002-268730	A2 20021009
			US 2003-601518	A2 20030620
			US 2004-802875	A2 20040312
			US 2001-271955P	P 20010228
			US 2001-275017P	P 20010312
			US 2001-305340P	P 20010713
			US 2002-85783	A2 20020228

L4 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2004:900604 CAPLUS
 DOCUMENT NUMBER: 142:4278
 TITLE: HAUSP/USP7 as an Epstein-Barr virus target
 AUTHOR(S): Holowaty, M. N.; Frappier, L.
 CORPORATE SOURCE: Department of Medical Genetics and Microbiology,
 University of Toronto, Toronto, Can.
 SOURCE: Biochemical Society Transactions (2004), 32(5),
 731-732
 CODEN: BCSTB5; ISSN: 0300-5127
 PUBLISHER: Portland Press Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2000:114335 CAPLUS
 DOCUMENT NUMBER: 132:332744
 TITLE: A genome-wide survey of RAS transformation targets
 AUTHOR(S): Zuber, Johannes; Tchernitsa, Oleg I.; Hinzmann, Bernd;
 Schmitz, Anne-Chantal; Grips, Martin; Hellriegel,
 Martin; Sers, Christine; Rosenthal, Andre; Schafer,
 Reinhold
 CORPORATE SOURCE: Laboratory of Molecular Tumour Pathology, Institute of
 Pathology, Charite, Humboldt-University, Berlin,
 D-10117, Germany
 SOURCE: Nature Genetics (2000), 24(2), 144-152
 CODEN: NGENEC; ISSN: 1061-4036
 PUBLISHER: Nature America
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file pctfull
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
30.31	30.52

FULL ESTIMATED COST

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FILE LAST UPDATED: 18 SEP 2006 <20060918/UP>
MOST RECENT UPDATE WEEK: 200637 <200637/EW>
FILE COVERS 1978 TO DATE

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<http://www.stn-international.de/stndatabases/details/ipc-reform.html> >>>

>>> FOR CHANGES IN PCTFULL PLEASE SEE HELP CHANGE
(last updated April 10, 2006) <<<

>>> NEW PRICES IN PCTFULL AS OF 01 JULY 2006. FOR DETAILS,
PLEASE SEE HELP COST <<<

=> s USP7

L5 37 USP7

=> s HAUSP

L6 34 HAUSP

=> s 16 or 15

L7 59 L6 OR L5

=> s MDM2 and 17

829 MDM2

L8 18 MDM2 AND L7

=> s screen? or ident?

194428 SCREEN?

478664 IDENT?

L9 532010 SCREEN? OR IDENT?

=> s 19 and 18

L10 18 L9 AND L8

=> s 110 not py>2002

444636 PY>2002

L11 5 L10 NOT PY>2002

=> d ibib 1-5

L11 ANSWER 1 OF 5

ACCESSION NUMBER:

TITLE (ENGLISH):

TITLE (FRENCH):

INVENTOR(S):

PATENT ASSIGNEE(S):

PCTFULL COPYRIGHT 2006 Univentio on STN

2002070742 PCTFULL ED 20020926 EW 200237

METHOD FOR THE DEVELOPMENT OF GENE PANELS FOR
DIAGNOSTIC AND THERAPEUTIC PURPOSES BASED ON THE
EXPRESSION AND METHYLATION STATUS OF THE GENES
PROCEDE DE MISE AU POINT DE GROUPES D'ECHANTILLONS DE
GENES A DES FINS DE DIAGNOSTIC ET DE THERAPIE QUI SONT
BASES SUR L'EXPRESSION ET L'ETAT DE METHYLATION DES
GENES

OLEK, Alexander, Schroederstrasse 13/2, 10115 Berlin,
DE;

BERLIN, Kurt, Marienkaeferweg 4, 14532 Stahndorf, DE

EPIGENOMICS AG, Kastanienalle 24, 10435 Berlin, DE [DE,

AGENT: DE]
 SCHOHE, Stefan\$, Boehmert & Boehmert, Pettenkoferstr.
 20-22, 80336 Muenchen\$, DE
 LANGUAGE OF FILING: English
 LANGUAGE OF PUBL.: English
 DOCUMENT TYPE: Patent
 PATENT INFORMATION:

NUMBER	KIND	DATE
WO 2002070742	A1	20020912

DESIGNATED STATES

W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR
 CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID
 IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD
 MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI
 SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW
 RW (ARIPO): GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
 RW (EAPO): AM AZ BY KG KZ MD RU TJ TM
 RW (EPO): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
 TR
 RW (OAPI): BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
 APPLICATION INFO.: WO 2002-EP2255 A 20020301
 PRIORITY INFO.: US 2001-60/272,549 20010301

L11 ANSWER 2 OF 5
 ACCESSION NUMBER:
 TITLE (ENGLISH):

PCTFULL COPYRIGHT 2006 Univentio on STN
 2002070741 PCTFULL ED 20020926 EW 200237
 METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR
 DETERMINING THE BIOLOGICAL EFFECT AND/OR ACTIVITY OF
 DRUGS, CHEMICAL SUBSTANCES AND/OR PHARMACEUTICAL
 COMPOSITIONS BASED ON THEIR EFFECT ON THE METHYLATION
 STATUS OF THE DNA

TITLE (FRENCH):

PROCEDES, SYSTEMES ET PRODUITS PROGRAMMES INFORMATIQUES
 PERMETTANT DE DETERMINER L'EFFET BIOLOGIQUE ET/OU
 L'ACTIVITE DE MEDICAMENTS, DE SUBSTANCES CHIMIQUES
 ET/OU DE COMPOSITIONS PHARMACEUTIQUES, SUR LA BASE DE
 LEUR EFFET SUR L'ETAT DE METHYLATION DE L'ADN

INVENTOR(S):

OLEK, Alexander, Schroederstrasse 13/2, 10115 Berlin,
 DE;

PATENT ASSIGNEE(S):

BERLIN, Kurt, Marienkaeferweg 4, 14532 Stahnsdorf, DE
 EPIGENOMICS AG, Kastanienallee 24, 10435 Berlin, DE
 [DE, DE]

AGENT:

SCHOHE, Stefan\$, Boehmert & Boehmert,
 Pettenkoferstrasse 20-22, 80336 Muenchen\$, DE

LANGUAGE OF FILING:

English

LANGUAGE OF PUBL.:

English

DOCUMENT TYPE:

Patent

PATENT INFORMATION:

NUMBER	KIND	DATE
WO 2002070741	A2	20020912

DESIGNATED STATES

W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR
 CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID
 IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD
 MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI
 SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW
 RW (ARIPO): GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
 RW (EAPO): AM AZ BY KG KZ MD RU TJ TM
 RW (EPO): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
 TR
 RW (OAPI): BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
 APPLICATION INFO.: WO 2002-EP2254 A 20020301
 PRIORITY INFO.: US 2001-60/272,484 20010301

L11 ANSWER 3 OF 5
ACCESSION NUMBER:
TITLE (ENGLISH):
TITLE (FRENCH):
INVENTOR(S):

PCTFULL COPYRIGHT 2006 Univentio on STN
2002057414 PCTFULL ED 20020801 EW 200230
LEUKOCYTE EXPRESSION PROFILING
EVALUATION DU NIVEAU D'EXPRESSION LEUCOCYTAIRE
WOHLGEMUTH, Jay, 664 Hamilton Avenue, Palo Alto, CA
94301, US [US, US];
FRY, Kirk, 2604 Ross Road, Palo Alto, CA 94303, US [US,
US];
MATCUK, George, 141C Escondido Village, Stanford, CA
94305, US [US, US];
ALTMAN, Peter, 717 Evelyn Avenue, Albany, CA 94706, US
[US, US];
PRENTICE, James, 120 Dolores Street, San Francisco, CA
94103, US [US, US];
PHILLIPS, Julie, 1090 Mirador Terrace, Pacifica, CA
94044, US [US, US];
LY, Ngoc, 2000 Crystal Springs Road 15-14, San Bruno,
CA 94066, US [US, US];
WOODWARD, Robert, 1828 Rheem Court, Pleasanton, CA
94588, US [US, US];
QUENTERMOUS, Thomas, 44 El Rey Road, Portola Valley, CA
94028, US [US, US];
JOHNSON, Frances, 44 El Rey Road, Portola Valley, CA
94028, US [US, US]

PATENT ASSIGNEE(S):

BIOCARDIA, INC., 384 Oyster Point Boulevard, #4, South
San Francisco, CA 94080, US [US, US], for all
designates States except US;
WOHLGEMUTH, Jay, 664 Hamilton Avenue, Palo Alto, CA
94301, US [US, US], for US only;
FRY, Kirk, 2604 Ross Road, Palo Alto, CA 94303, US [US,
US], for US only;
MATCUK, George, 141C Escondido Village, Stanford, CA
94305, US [US, US], for US only;
ALTMAN, Peter, 717 Evelyn Avenue, Albany, CA 94706, US
[US, US], for US only;
PRENTICE, James, 120 Dolores Street, San Francisco, CA
94103, US [US, US], for US only;
PHILLIPS, Julie, 1090 Mirador Terrace, Pacifica, CA
94044, US [US, US], for US only;
LY, Ngoc, 2000 Crystal Springs Road 15-14, San Bruno,
CA 94066, US [US, US], for US only;
WOODWARD, Robert, 1828 Rheem Court, Pleasanton, CA
94588, US [US, US], for US only;
QUENTERMOUS, Thomas, 44 El Rey Road, Portola Valley, CA
94028, US [US, US], for US only;
JOHNSON, Frances, 44 El Rey Road, Portola Valley, CA
94028, US [US, US], for US only
WARD, Michael, R.\$, Morrison & Foerster LLP, 425 Market
Street, San Francisco, CA 94105-2482\$, US

AGENT:

LANGUAGE OF FILING:
LANGUAGE OF PUBL.:
DOCUMENT TYPE:
PATENT INFORMATION:

NUMBER	KIND	DATE
WO 2002057414	A2	20020725

DESIGNATED STATES

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AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR
CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID
IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD
MG MK MN MW MX MZ NO NZ PH PL PT RO RU SD SE SG SI SK
SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
RW (ARIPO): GH GM KE LS MW MZ SD SL SZ TZ UG ZW
RW (EAPO): AM AZ BY KG KZ MD RU TJ TM

RW (EPO): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
TR
RW (OAPI): BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
APPLICATION INFO.: WO 2001-US47856 A 20011022
PRIORITY INFO.: US 2000-60/241,994 20001020
US 2001-60/296,764 20010608

L11 ANSWER 4 OF 5 PCTFULL COPYRIGHT 2006 Univentio on STN
ACCESSION NUMBER: 2000079267 PCTFULL ED 20020515
TITLE (ENGLISH): TREATMENT OF CANCER
TITLE (FRENCH): TRAITEMENT ANTICANCEREUX
INVENTOR(S): NIZETIC, Dean;
GROET, JuergenRP : GILL JENNINGS & EVERY
PATENT ASSIGNEE(S): SCHOOL OF PHARMACY, UNIVERSITY OF LONDON;
NIZETIC, Dean;
GROET, Juergen
LANGUAGE OF PUBL.: English
DOCUMENT TYPE: Patent
PATENT INFORMATION:

NUMBER	KIND	DATE
WO 2000079267	A2	20001228

DESIGNATED STATES
W:

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CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN
IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK
MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM
TR TT TZ UA UG US UZ VN YU ZA ZW GH GM KE LS MW MZ SD
SL SZ TZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY
DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG
CI CM GA GN GW ML MR NE SN TD TG
WO 2000-GB2446 A 20000622
GB 2000-0008161.2 20000403
GB 1999-9914589.8 19990622

APPLICATION INFO.:
PRIORITY INFO.:

L11 ANSWER 5 OF 5 PCTFULL COPYRIGHT 2006 Univentio on STN
ACCESSION NUMBER: 2000073479 PCTFULL ED 20020515
TITLE (ENGLISH): A COMBINED GROWTH FACTOR-DELETED AND THYMIDINE
KINASE-DELETED VACCINIA VIRUS VECTOR
TITLE (FRENCH): VECTEUR DU VIRUS DE LA VACCINE COMBINANT DELETION DU
FACTEUR DE CROISSANCE ET DELETION DE THYMIDINE KINASE
INVENTOR(S): MCCART, J., Andrea;
BARTLETT, David, L.;
MOSS, BernardRP : NATAUPSKY, Steven, J.
PATENT ASSIGNEE(S): THE GOVERNMENT OF THE UNITED STATES OF AMERICA, as
represented by THE SECRETARY, DEPARTMENT OF HEALTH AND
HUMAN SERVICES;
MCCART, J., Andrea;
BARTLETT, David, L.;
MOSS, Bernard
LANGUAGE OF PUBL.: English
DOCUMENT TYPE: Patent
PATENT INFORMATION:

NUMBER	KIND	DATE
WO 2000073479	A1	20001207

DESIGNATED STATES
W:

AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ
DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS
JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN
MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT
TZ UA UG US UZ VN YU ZA ZW GH GM KE LS MW MZ SD SL SZ
TZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK
ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM

	GA GN GW ML MR NE SN TD TG
APPLICATION INFO.:	WO 2000-US14679 A 20000526
PRIORITY INFO.:	US 1999-60/137,126 19990528

=> d kwic 4

L11 ANSWER 4 OF 5 PCTFULL COPYRIGHT 2006 Univentio on STN

DETD . . . as p53, could perhaps explain the link to deletions of USPs in solid tumours. De-ubiquitination could play a major role in the Mdm2 mediated control of p53 levels and its activation mechanism, since the ubiquitin-mediated proteasome degradation of p53 is an important effector arm of. . .

In recent years a number of other protein modifying polypeptide tags have been identified. Many of these are related to ubiquitin and-have high levels of identity and similarity (determined using the BLAST algorithm, for instance) to ubiquitin itself. There is a recognised super family of such proteins which. . .

human SUMO-1 (PIC1 1 Sentrin, hSmt3C), SUMO-2 (hSmt3A) and SUMO-3 (hSMT3B) belong to the same family of UbL proteins with approximately 50% identity between themselves, and some 15-30% identity and 40-60% similarity in amino acid sequence to ubiquitin (Lapenta et al. 1997, Mannen et al. 1996, Kamitani et al. 1998, Saitoh. . .

Several UbL hydrolase enzymes have been identified which convert precursor UbL to active UbL. Some such enzymes interact with ubiquitin itself as well as with other UbL's. Proteases involved in cleavage of conjugates of UbL with target protein have been identified for instance SENP1 and SUSP-1, which were recently cloned (Kim et al. 2000, Gong et al. 2000a), and found to specifically cleave. . .

Valero, et al. (1 999) published after the first priority date of the present application, have, in parallel identified this gene and pointed out the gene product's sequence homologies to known USIP's in the conserved peptide domains previously identified e.g. by d'Andrea et al (1 998). They postulate a role in Alzheimer's disease. This protein has the HUGO approved name USP25.

fusion protein of the ubiquitin-like protein of interest and a detectable protein, and using the usual separation and immune based or autoradiographic identification techniques.

the specified domains, some level of sequence homology with sequence ID 1 , for instance at least

20%, preferably at least 50%, identity with that sequence, and a level of similarity of at least 50%, preferably at least 70% or more with that sequence (in. . .

the corresponding mouse product, described in Valero, et al 1999 may be used or sequences which have the above levels of identity and similarity with such a sequence.

outside the specified domains, some level of sequence homology with sequence ID 1 for instance at least 20%, preferably at least 50%, identity with that sequence, and a level of similarity of at least 50%, preferably at least 70% or more with that sequence (in. . . as the corresponding mouse product, described in Valero, et al 1999 may be used or sequences which have the above levels of identity and similarity with such a sequence.

Experimental

We identify a portion of human chromosome 21 homozygously deleted in non-small cell non carcinoma (NSCLC) for further study. The region contained the DNA. . . et al. We found a shared region of overlap (SRO) for the hemizygous loss in other NSCLC. The current work is to identify genes in the SRO which have a potential role in tumour suppression.

The exposure was for 14 hr to Molecular Dynamics (Sunnyvale, CA) Phosphorimager screens. The I.M.A.G.E. Consortium (Lennon et al., 1996) cDNA clone ID 82471 0 and the Unigene clone A0021343 have been used as labelled. . .

Identification and cloning of USP26

Twelve sequenced exon-trapped products, when analysed using BLAST-N against public sequence databases, revealed clusters of overlapping cDNA clones. Sequences. . .

with the binding of USP25 to its natural ubiquitinated substrates, since this residue is conserved between all UCH-s and USP-s so far identified.

of the sequences found to be interacting, from the GenBank database are given in the table, Table 1. Summary of frequency and identities of specific interacting proteins from human brain with USP25-C178A, detected using Yeast-Two-Hybrid technique
Summary of Results by Number of specific Accession number decreasing. . .

SUMO-

1 (PIC1, Sentrin, hSmt3C), SUMO-2 (hSmt3A) and SUMO-3 (hSMT3B) belong to the same family of UbL proteins with approximately 50% identity between themselves, and some 15-30% identity and 40-60% similarity in

amino acid sequence to ubiquitin (Lapenta et al. 1997, Mannen et al. 1996, Kamitani et al. 1998, Saitoh. . .

Figure Legends

Figure 1. Identification of the Shared Region of Overlap (S.R.O.) for hemizygous deletions in 21ql 1-q21 in NSCLCA Cytogenetic map, Not I long range physical. . .

the single key
aminoacids in the Cys and His domains. Two reports show the localisations
of the highly homologous sequences for the HAUSP gene to 3p21 (Kashuba, et al 1997) and 16p1 3 (Robinson, et al 1998), respectively.

A. 1992. Ubiquitin-specific proteases of *Saccharomyces cerevisiae*. J. Biol Chem 267:23364
Baker, R.T., Wang, X-W., Woollatt, E., White, J.A. and Sutherlands, G.R. Identification, functional characterisation, and chromosomal localisation of USP15, a novel Human USP related to Unp Oncoprotein, and a systematic nomenclature for hUSP's. Genomics. . .

T., Saito, A... Suzuki, M., Shinomiya, H., Suzuki, T., Takahashi, E., Tanigami, A., Ichiyama, A., Chung, C.H., Nakamura, Y., and Tanaka, K. Identification and chromosomal assignment of USP1, a novel gene encoding a human ubiquitin-specific protease. Genomics, 54:155-158, 1998.

human chromosome 5q33-q34, UBH1, encodes a novel deubiquitinating enzyme. Genomics 49:411
Haupt Y, Maya R, Kazaz A, Oren M (1 997) Mdm2 promotes the rapid degradation of p53, Nature 387:296
Ichikawa, H., Hosoda, F., Arai, Y., Shimizu, K., Ohira, M., and Ohki, M. A. . . .

Sumegi J, Klein G, Zabarovsky ER, Kisselev L. 1997. Not1 linking/jumping clones of human chromosome 3: mapping of the TFRC, RA137 and HAUSP genes to regions rearranged in leukemia and deleted in solid tumours. FEBS Lett 419:181-185.

Assignment of herpesvirus-associated ubiquitin-specific protease gene HAUSP to human chromosome band 16p 13.3 by in situ hybridisation, Cytogenet. Cell Genet. 83:100.

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=> E "HAUSP"/CN 25

E1	1	HAUSMANNITE, MAGNESIAN (MN2(MN0.5-0.9MG0.1-0.5)O4)/CN
E2	1	HAUSMANNITE, ZINCIAN (MN2(MN0.5-0.9ZN0.1-0.5)O4)/CN
E3	0 -->	HAUSP/CN
E4	1	HAUSP PROTEASE/CN
E5	1	HAUSTELLUM SPECIFIC PROTEIN B (SARCOPHAGA PEREGRINA GENE HSPB)/CN
E6	1	HAUTHANE HD 2334/CN
E7	1	HAUTHANE HD 2334, POLYMER WITH MONDUR TD 80 AND POLY-G 83-34/CN
E8	1	HAUTHANE HD 2001/CN
E9	1	HAUTHANE HD 4664/CN
E10	1	HAUTHANE L 2020/CN
E11	1	HAUTHAWAY IDA/CN
E12	1	HAUTOFOAM ES-AL/CN
E13	1	HAUTOFOAM ES-SI/CN
E14	1	HAUTOFOAM ES-TI/CN
E15	1	HAUTOFOAM ITO/CN
E16	1	HAUTOFOAM MS-Y/CN
E17	1	HAUTOFOAM NI/CN
E18	1	HAUTOFOAM SN/CN
E19	1	HAUTRIWAIC ACID/CN
E20	1	HAUTRIWAIC ACID Γ -LACTONE/CN
E21	1	HAUTRIWAIC ACID ACETATE/CN
E22	1	HAUTRIWAIC ACID LACTONE/CN
E23	1	HAUTRIWAIC ACID METHYL ESTER/CN
E24	1	HAUTRIWAIC ACID METHYL ESTER ACETATE/CN
E25	2	HAUYNE/CN

=> S E4

L12 1 "HAUSP PROTEASE"/CN

=> DIS L12 1 SQIDE

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DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L12 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN
RN 109136-49-4 REGISTRY
CN Proteinase, ubiquitin conjugate (9CI) (CA INDEX NAME)
OTHER NAMES:
CN DEN1 protease
CN Deneddylase
CN Deubiquination enzyme UBPl

CN Deubiquitinase
 CN Deubiquitinating enzyme
 CN Deubiquitinating enzyme DUB-2
 CN HAUSP protease
 CN ISG15-specific protease UBP43
 CN Otubain 1
 CN Polyubiquitin proteinase
 CN Protease USP21
 CN Proteinase, ubiquitin-fusion protein
 CN Ubiquitin conjugate protease
 CN Ubiquitin conjugate proteinase
 CN Ubiquitin protease
 CN Ubiquitin proteinase
 CN Ubiquitin-fusion protein proteinase
 CN Ubiquitin-specific processing protease
 CN Ubiquitin-specific protease
 CN Ubiquitin-specific protease 21
 CN Ubiquitin-specific proteinase
 CN UBP1 protease
 DR 123175-78-0, 123175-79-1
 MF Unspecified
 CI MAN
 SR CA
 LC STN Files: AGRICOLA, BIOSIS, CA, CAPLUS, CIN, PROMT, TOXCENTER, USPAT2,
 USPATFULL
 DT.CA CAplus document type: Conference; Dissertation; Journal; Patent
 RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);
 MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC
 (Process); PRP (Properties); USES (Uses)
 RLD.P Roles for non-specific derivatives from patents: ANST (Analytical
 study); BIOL (Biological study); PREP (Preparation); PRP (Properties);
 USES (Uses)
 RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological
 study); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP
 (Properties); USES (Uses)
 RLD.NP Roles for non-specific derivatives from non-patents: BIOL (Biological
 study); PROC (Process); PRP (Properties)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

610 REFERENCES IN FILE CA (1907 TO DATE)

7 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

617 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> E "USP7"/CN 25

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 E3 0 --> USP7/CN
 E4 1 USP8 PROTEIN (HUMAN CLONE IMAGE:6429817 GENE USP8)/CN
 E5 1 USP8 PROTEIN (MOUSE STRAIN FVB/N CLONE IMAGE:5041516 GENE
 USP8)/CN
 E6 1 USP8-PROV PROTEIN (XENOPUS LAEVIS CLONE MGC:53905
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 E7 1 USP9X PROTEIN (HUMAN CLONE IMAGE:4538919 GENE USP9X)/CN
 E8 1 USP9X PROTEIN (HUMAN CLONE IMAGE:6175281 GENE USP9X)/CN
 E9 1 USPA (MYCOBACTERIUM AVIUM PARATUBERCULOSIS STRAIN K-10 GENE
 USPA)/CN
 E10 1 USPA (NITROBACTER WINOGRADSKYI STRAIN NB-255)/CN
 E11 1 USPA (PASTEURELLA MULTOCIDA STRAIN IL1403 CLONE PM70 GENE
 USPA)/CN
 E12 3 USPA (PSEUDOMONAS SYRINGAE SYRINGAE STRAIN B728A)/CN
 E13 1 USPA FAMILY PROTEIN (BURKHOLDERIA MALLEI STRAIN ATCC 23344)/CN
 E14 1 USPA FAMILY PROTEIN (BURKHOLDERIA THAILANDENSIS STRAIN E264)/CN
 E15 3 USPA PROTEIN (MANNHEIMIA SUCCINICIPRODUCENS STRAIN MBEL55E GENE
 USPA)/CN

E16	1	USPA-RELATED NUCLEOTIDE-BINDING PROTEIN (IDIOMARINA LOIHIENSIS STRAIN L2TR GENE USPA)/CN
E17	1	USPA-RELATED NUCLEOTIDE-BINDING PROTEIN (IDIOMARINA LOIHIENSIS STRAIN L2TR)/CN
E18	1	USPALLATINE/CN
E19	1	USPALLATINE 6-ACETATE/CN
E20	1	USPALLATINE ACETATE/CN
E21	1	USPALLATINECINE/CN
E22	1	USPC (MYCOBACTERIUM AVIUM PARATUBERCULOSIS STRAIN K-10 GENE USPC)/CN
E23	1	USPCA/CN
E24	1	USPE (MYCOBACTERIUM AVIUM PARATUBERCULOSIS STRAIN K-10 GENE USPE)/CN
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=> E "USP 7"/CN 25

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E2	1	USP 400P/CN
E3	0 -->	USP 7/CN
E4	1	USP 711/CN
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E8	1	USP10-PROV PROTEIN (XENOPUS TROPICALIS CLONE MGC:89480 IMAGE:6991947 GENE USP10-PROV)/CN
E9	1	USP11 PROTEIN (HUMAN CLONE IMAGE:2961383 GENE USP11)/CN
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E72	1	USP53 PROTEIN (MOUSE STRAIN FVB/N CLONE IMAGE:4236151 GENE
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E78	1	USP6NL PROTEIN (HUMAN CLONE IMAGE:4838780)/CN
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E81	1	USP8 PROTEIN (MOUSE STRAIN FVB/N CLONE IMAGE:5041516 GENE
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IMAGE:5543601)/CN		
E83	1	USP9X PROTEIN (HUMAN CLONE IMAGE:4538919 GENE USP9X)/CN
E84	1	USP9X PROTEIN (HUMAN CLONE IMAGE:6175281 GENE USP9X)/CN
E85	1	USPA (MYCOBACTERIUM AVIUM PARATUBERCULOSIS STRAIN K-10 GENE
USPA)/CN		
E86	1	USPA (NITROBACTER WINOGRADSKYI STRAIN NB-255)/CN
E87	1	USPA (PASTEURELLA MULTOCIDA STRAIN IL1403 CLONE PM70 GENE
USPA)/CN		
E88	3	USPA (PSEUDOMONAS SYRINGAE SYRINGAE STRAIN B728A)/CN
E89	1	USPA FAMILY PROTEIN (BURKHOLDERIA MALLEI STRAIN ATCC 23344)/CN
E90	1	USPA FAMILY PROTEIN (BURKHOLDERIA THAILANDENSIS STRAIN E264)/CN
E91	3	USPA PROTEIN (MANNHEIMIA SUCCINICIPRODUCENS STRAIN MBEL55E GENE
USPA)/CN		
E92	1	USPA-RELATED NUCLEOTIDE-BINDING PROTEIN (IDIOMARINA LOIHIENSIS
STRAIN L2TR GENE USPA)/CN		
E93	1	USPA-RELATED NUCLEOTIDE-BINDING PROTEIN (IDIOMARINA LOIHIENSIS
STRAIN L2TR)/CN		
E94	1	USPALLATINE/CN
E95	1	USPALLATINE 6-ACETATE/CN

E96	1	USPALLATINE ACETATE/CN
E97	1	USPALLATINECINE/CN
E98	1	USPC (MYCOBACTERIUM AVIUM PARATUBERCULOSIS STRAIN K-10 GENE USPC)/CN
E99	1	USPCA/CN
E100	1	USPE (MYCOBACTERIUM AVIUM PARATUBERCULOSIS STRAIN K-10 GENE USPE)/CN

=> file medline

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
8.42	54.46

FULL ESTIMATED COST

FILE 'MEDLINE' ENTERED AT 15:19:32 ON 20 SEP 2006

FILE LAST UPDATED: 19 Sep 2006 (20060919/UP). FILE COVERS 1950 TO DATE.

On December 11, 2005, the 2006 MeSH terms were loaded.

The MEDLINE reload for 2006 is now (26 Feb.) available. For details on the 2006 reload, enter HELP RLOAD at an arrow prompt (=>).

See also:

<http://www.nlm.nih.gov/mesh/>
http://www.nlm.nih.gov/pubs/techbull/nd04/nd04_mesh.html
http://www.nlm.nih.gov/pubs/techbull/nd05/nd05_med_data_changes.html
http://www.nlm.nih.gov/pubs/techbull/nd05/nd05_2006_MeSH.html

OLDMEDLINE is covered back to 1950.

MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2006 vocabulary.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s HAUSP or (USP () 7)

39 HAUSP
4983 USP
37 USPS
5006 USP
(USP OR USPS)
1527014 7

0 USP (W) 7
L13 39 HAUSP OR (USP (W) 7)

=> s HAUSP or (USP7)

39 HAUSP
47 USP7
L14 55 HAUSP OR (USP7)

=> s MDM2

L15 2699 MDM2

=> s l15 and l14

L16 18 L15 AND L14

=> s l16 not py>2002

2271354 PY>2002
(PY>20029999)

L17 1 L16 NOT PY>2002

=> d ibib

L17 ANSWER 1 OF 1 MEDLINE on STN
 ACCESSION NUMBER: 2002212418 MEDLINE
 DOCUMENT NUMBER: PubMed ID: 11923872
 TITLE: Deubiquitination of p53 by HAUSP is an important pathway for p53 stabilization.
 AUTHOR: Li Muyang; Chen Delin; Shiloh Ariel; Luo Jianyuan; Nikolaev Anatoly Y; Qin Jun; Gu Wei
 CORPORATE SOURCE: Institute for Cancer Genetics, and Department of Pathology, College of Physicians & Surgeons, Columbia University, 1150 St Nicholas Avenue, New York, New York 10032, USA.
 SOURCE: Nature, (2002 Apr 11) Vol. 416, No. 6881, pp. 648-53.
 Electronic Publication: 2002-03-31.
 Journal code: 0410462. ISSN: 0028-0836.
 PUB. COUNTRY: England; United Kingdom
 DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
 LANGUAGE: English
 FILE SEGMENT: Priority Journals
 ENTRY MONTH: 200205
 ENTRY DATE: Entered STN: 12 Apr 2002
 Last Updated on STN: 18 May 2002
 Entered Medline: 17 May 2002

=> d abs

L17 ANSWER 1 OF 1 MEDLINE on STN
 AB The p53 tumour suppressor is a short-lived protein that is maintained at low levels in normal cells by Mdm2-mediated ubiquitination and subsequent proteolysis. Stabilization of p53 is crucial for its tumour suppressor function. However, the precise mechanism by which ubiquitinated p53 levels are regulated in vivo is not completely understood. By mass spectrometry of affinity-purified p53-associated factors, we have identified herpesvirus-associated ubiquitin-specific protease (HAUSP) as a novel p53-interacting protein. HAUSP strongly stabilizes p53 even in the presence of excess Mdm2, and also induces p53-dependent cell growth repression and apoptosis. Significantly, HAUSP has an intrinsic enzymatic activity that specifically deubiquitinates p53 both in vitro and in vivo. In contrast, expression of a catalytically inactive point mutant of HAUSP in cells increases the levels of p53 ubiquitination and destabilizes p53. These findings reveal an important mechanism by which p53 can be stabilized by direct deubiquitination and also imply that HAUSP might function as a tumour suppressor in vivo through the stabilization of p53.

=> d his

(FILE 'HOME' ENTERED AT 15:06:58 ON 20 SEP 2006)

FILE 'CAPLUS' ENTERED AT 15:07:09 ON 20 SEP 2006

L1 21 S HAUSP AND MDM2
 L2 6 S L1 NOT PY>2004
 L3 40 S USP7
 L4 8 S L3 AND MDM2

FILE 'PCTFULL' ENTERED AT 15:12:56 ON 20 SEP 2006

L5 37 S USP7
 L6 34 S HAUSP
 L7 59 S L6 OR L5
 L8 18 S MDM2 AND L7
 L9 532010 S SCREEN? OR IDENT?
 L10 18 S L9 AND L8
 L11 5 S L10 NOT PY>2002

FILE 'REGISTRY' ENTERED AT 15:17:14 ON 20 SEP 2006

L12 E "HAUSP"/CN 25
 1 S E4
 E "USP7"/CN 25
 E "USP 7"/CN 25
 E "USP-7"/CN 25

FILE 'MEDLINE' ENTERED AT 15:19:32 ON 20 SEP 2006

L13 39 S HAUSP OR (USP () 7)
L14 55 S HAUSP OR (USP7)
L15 2699 S MDM2
L16 18 S L15 AND L14
L17 1 S L16 NOT PY>2002

=> file pctfull

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

3.73

58.19

FILE 'PCTFULL' ENTERED AT 15:24:49 ON 20 SEP 2006

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FILE LAST UPDATED: 18 SEP 2006 <20060918/UP>
MOST RECENT UPDATE WEEK: 200637 <200637/EW>
FILE COVERS 1978 TO DATE

>>> IMAGES ARE AVAILABLE ONLINE AND FOR EMAIL-PRINTS <<<

>>> NEW IPC8 DATA AND FUNCTIONALITY NOW AVAILABLE IN THIS FILE.

SEE

<http://www.stn-international.de/stndatabases/details/ipc-reform.html> >>>

>>> FOR CHANGES IN PCTFULL PLEASE SEE HELP CHANGE
(last updated April 10, 2006) <<<

>>> NEW PRICES IN PCTFULL AS OF 01 JULY 2006. FOR DETAILS,
PLEASE SEE HELP COST <<<

=> d l11 ibib

L11 ANSWER 1 OF 5 PCTFULL COPYRIGHT 2006 Univentio on STN
ACCESSION NUMBER: 2002070742 PCTFULL ED 20020926 EW 200237
TITLE (ENGLISH): METHOD FOR THE DEVELOPMENT OF GENE PANELS FOR
 DIAGNOSTIC AND THERAPEUTIC PURPOSES BASED ON THE
 EXPRESSION AND METHYLATION STATUS OF THE GENES
TITLE (FRENCH): PROCEDE DE MISE AU POINT DE GROUPE D'ECHANTILLONS DE
 GENES A DES FINS DE DIAGNOSTIC ET DE THERAPIE QUI SONT
 BASEES SUR L'EXPRESSION ET L'ETAT DE METHYLATION DES
 GENES
INVENTOR(S): OLEK, Alexander, Schroederstrasse 13/2, 10115 Berlin,
 DE;
 BERLIN, Kurt, Marienkaeferweg 4, 14532 Stahndorf, DE
PATENT ASSIGNEE(S): EPIGENOMICS AG, Kastanienalle 24, 10435 Berlin, DE [DE,
 DE]
AGENT: SCHOHE, Stefan\$, Boehmert & Boehmert, Pettenkoferstr.
 20-22, 80336 Muenchen\$, DE
LANGUAGE OF FILING: English
LANGUAGE OF PUBL.: English
DOCUMENT TYPE: Patent
PATENT INFORMATION:

NUMBER	KIND	DATE
WO 2002070742	A1	20020912

DESIGNATED STATES

W:

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR
 CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID
 IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD
 MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI
 SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

RW (ARIPO):

GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

RW (EAPO):

AM AZ BY KG KZ MD RU TJ TM

RW (EPO):

AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
 TR

RW (OAPI):

BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

APPLICATION INFO.:

WO 2002-EP2255 A 20020301

PRIORITY INFO.:

US 2001-60/272,549 20010301

=> d 111 ibib 1-5

L11 ANSWER 1 OF 5

ACCESSION NUMBER:

PCTFULL COPYRIGHT 2006 Univentio on STN

TITLE (ENGLISH):

2002070742 PCTFULL ED 20020926 EW 200237

TITLE (FRENCH):

METHOD FOR THE DEVELOPMENT OF GENE PANELS FOR
 DIAGNOSTIC AND THERAPEUTIC PURPOSES BASED ON THE
 EXPRESSION AND METHYLATION STATUS OF THE GENES
 PROCEDE DE MISE AU POINT DE GROUPES D'ECHANTILLONS DE
 GENES A DES FINS DE DIAGNOSTIC ET DE THERAPIE QUI SONT
 BASES SUR L'EXPRESSION ET L'ETAT DE METHYLATION DES
 GENES

INVENTOR(S):

OLEK, Alexander, Schroederstrasse 13/2, 10115 Berlin,
 DE;

PATENT ASSIGNEE(S):

BERLIN, Kurt, Marienkaeferweg 4, 14532 Stahndorf, DE
 EPIGENOMICS AG, Kastanienalle 24, 10435 Berlin, DE [DE,
 DE]

AGENT:

SCHOHE, Stefan\$, Boehmert & Boehmert, Pettenkoferstr.
 20-22, 80336 Muenchen\$, DE

LANGUAGE OF FILING:

English

LANGUAGE OF PUBL.:

English

DOCUMENT TYPE:

Patent

PATENT INFORMATION:

NUMBER	KIND	DATE
WO 2002070742	A1	20020912

DESIGNATED STATES

W:

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR
 CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID
 IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD
 MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI
 SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

RW (ARIPO):

GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

RW (EAPO):

AM AZ BY KG KZ MD RU TJ TM

RW (EPO):

AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
 TR

RW (OAPI):

BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

APPLICATION INFO.:

WO 2002-EP2255 A 20020301

PRIORITY INFO.:

US 2001-60/272,549 20010301

L11 ANSWER 2 OF 5

ACCESSION NUMBER:

PCTFULL COPYRIGHT 2006 Univentio on STN

TITLE (ENGLISH):

2002070741 PCTFULL ED 20020926 EW 200237

TITLE (FRENCH):

METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR
 DETERMINING THE BIOLOGICAL EFFECT AND/OR ACTIVITY OF
 DRUGS, CHEMICAL SUBSTANCES AND/OR PHARMACEUTICAL
 COMPOSITIONS BASED ON THEIR EFFECT ON THE METHYLATION
 STATUS OF THE DNA
 PROCEDES, SYSTEMES ET PRODUITS PROGRAMMES INFORMATIQUES
 PERMETTANT DE DETERMINER L'EFFET BIOLOGIQUE ET/OU
 L'ACTIVITE DE MEDICAMENTS, DE SUBSTANCES CHIMIQUES

INVENTOR(S): ET/OU DE COMPOSITIONS PHARMACEUTIQUES, SUR LA BASE DE
 LEUR EFFET SUR L'ETAT DE METHYLATION DE L'ADN
 OLEK, Alexander, Schroederstrasse 13/2, 10115 Berlin,
 DE;
 PATENT ASSIGNEE(S): BERLIN, Kurt, Marienkaeferweg 4, 14532 Stahnsdorf, DE
 EPIGENOMICS AG, Kastanienallee 24, 10435 Berlin, DE
 [DE, DE]
 AGENT: SCHOHE, Stefan\$, Boehmert & Boehmert,
 Pettenkoferstrasse 20-22, 80336 Muenchen\$, DE
 LANGUAGE OF FILING: English
 LANGUAGE OF PUBL.: English
 DOCUMENT TYPE: Patent
 PATENT INFORMATION:

NUMBER	KIND	DATE
WO 2002070741	A2	20020912

DESIGNATED STATES
 W:

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR
 CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID
 IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD
 MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI
 SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW
 GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
 AM AZ BY KG KZ MD RU TJ TM
 AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
 TR

RW (ARIPO):

RW (EAPO):

RW (EPO):

RW (OAPI):

APPLICATION INFO.:

PRIORITY INFO.:

BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
 WO 2002-EP2254 A 20020301
 US 2001-60/272,484 20010301

L11 ANSWER 3 OF 5

ACCESSION NUMBER:

TITLE (ENGLISH):

TITLE (FRENCH):

INVENTOR(S):

PCTFULL COPYRIGHT 2006 Univentio on STN
 2002057414 PCTFULL ED 20020801 EW 200230
 LEUKOCYTE EXPRESSION PROFILING
 EVALUATION DU NIVEAU D'EXPRESSION LEUCOCYTAIRE
 WOHLGEMUTH, Jay, 664 Hamilton Avenue, Palo Alto, CA
 94301, US [US, US];
 FRY, Kirk, 2604 Ross Road, Palo Alto, CA 94303, US [US,
 US];
 MATCUK, George, 141C Escondido Village, Stanford, CA
 94305, US [US, US];
 ALTMAN, Peter, 717 Evelyn Avenue, Albany, CA 94706, US
 [US, US];
 PRENTICE, James, 120 Dolores Street, San Francisco, CA
 94103, US [US, US];
 PHILLIPS, Julie, 1090 Mirador Terrace, Pacifica, CA
 94044, US [US, US];
 LY, Ngoc, 2000 Crystal Springs Road 15-14, San Bruno,
 CA 94066, US [US, US];
 WOODWARD, Robert, 1828 Rheem Court, Pleasanton, CA
 94588, US [US, US];
 QUENTERMOUS, Thomas, 44 El Rey Road, Portola Valley, CA
 94028, US [US, US];
 JOHNSON, Frances, 44 El Rey Road, Portola Valley, CA
 94028, US [US, US]

PATENT ASSIGNEE(S):

BIOCARDIA, INC., 384 Oyster Point Boulevard, #4, South
 San Francisco, CA 94080, US [US, US], for all
 designates States except US;
 WOHLGEMUTH, Jay, 664 Hamilton Avenue, Palo Alto, CA
 94301, US [US, US], for US only;
 FRY, Kirk, 2604 Ross Road, Palo Alto, CA 94303, US [US,
 US], for US only;
 MATCUK, George, 141C Escondido Village, Stanford, CA
 94305, US [US, US], for US only;
 ALTMAN, Peter, 717 Evelyn Avenue, Albany, CA 94706, US

[US, US], for US only;
PRENTICE, James, 120 Dolores Street, San Francisco, CA
94103, US [US, US], for US only;
PHILLIPS, Julie, 1090 Mirador Terrace, Pacifica, CA
94044, US [US, US], for US only;
LY, Ngoc, 2000 Crystal Springs Road 15-14, San Bruno,
CA 94066, US [US, US], for US only;
WOODWARD, Robert, 1828 Rheem Court, Pleasanton, CA
94588, US [US, US], for US only;
QUERTERMOUS, Thomas, 44 El Rey Road, Portola Valley, CA
94028, US [US, US], for US only;
JOHNSON, Frances, 44 El Rey Road, Portola Valley, CA
94028, US [US, US], for US only
WARD, Michael, R.\$, Morrison & Foerster LLP, 425 Market
Street, San Francisco, CA 94105-2482\$, US

AGENT:

LANGUAGE OF FILING:

LANGUAGE OF PUBL.:

DOCUMENT TYPE:

PATENT INFORMATION:

NUMBER KIND DATE

WO 2002057414 A2 20020725

DESIGNATED STATES

W:

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR
CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID
IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD
MG MK MN MW MX MZ NO NZ PH PL PT RO RU SD SE SG SI SK
SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

RW (ARIPO):

GH GM KE LS MW MZ SD SL SZ TZ UG ZW

RW (EAPO):

AM AZ BY KG KZ MD RU TJ TM

RW (EPO):

AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
TR

RW (OAPI):

BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

APPLICATION INFO.:

WO 2001-US47856 A 20011022

PRIORITY INFO.:

US 2000-60/241,994 20001020

US 2001-60/296,764 20010608

L11 ANSWER 4 OF 5

PCTFULL COPYRIGHT 2006 Univention on STN

ACCESSION NUMBER:

2000079267 PCTFULL ED 20020515

TITLE (ENGLISH):

TREATMENT OF CANCER

TITLE (FRENCH):

TRAITEMENT ANTICANCEREUX

INVENTOR(S):

NIZETIC, Dean;

PATENT ASSIGNEE(S):

GROET, JuergenRP : GILL JENNINGS & EVERY
SCHOOL OF PHARMACY, UNIVERSITY OF LONDON;
NIZETIC, Dean;
GROET, Juergen

LANGUAGE OF PUBL.:

English

DOCUMENT TYPE:

Patent

PATENT INFORMATION:

NUMBER KIND DATE

WO 2000079267 A2 20001228

DESIGNATED STATES

W:

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU
CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN
IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK
MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM
TR TT TZ UA UG US UZ VN YU ZA ZW GH GM KE LS MW MZ SD
SL SZ TZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY
DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG
CI CM GA GN GW ML MR NE SN TD TG

APPLICATION INFO.:

WO 2000-GB2446 A 20000622

PRIORITY INFO.:

GB 2000-0008161.2 20000403

GB 1999-9914589.8 19990622

L11 ANSWER 5 OF 5 PCTFULL COPYRIGHT 2006 Univentio on STN
 ACCESSION NUMBER: 2000073479 PCTFULL ED 20020515
 TITLE (ENGLISH): A COMBINED GROWTH FACTOR-DELETED AND THYMIDINE
 KINASE-DELETED VACCINIA VIRUS VECTOR
 TITLE (FRENCH): VECTEUR DU VIRUS DE LA VACCINE COMBINANT DELETION DU
 FACTEUR DE CROISSANCE ET DELETION DE THYMIDINE KINASE
 INVENTOR(S): MCCART, J., Andrea;
 BARTLETT, David, L.;
 MOSS, BernardRP : NATAUPSKY, Steven, J.
 PATENT ASSIGNEE(S): THE GOVERNMENT OF THE UNITED STATES OF AMERICA, as
 represented by THE SECRETARY, DEPARTMENT OF HEALTH AND
 HUMAN SERVICES;
 MCCART, J., Andrea;
 BARTLETT, David, L.;
 MOSS, Bernard
 LANGUAGE OF PUBL.: English
 DOCUMENT TYPE: Patent
 PATENT INFORMATION:

NUMBER	KIND	DATE

WO 2000073479	A1	20001207

DESIGNATED STATES
 W:

AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ
 DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS
 JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN
 MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT
 TZ UA UG US UZ VN YU ZA ZW GH GM KE LS MW MZ SD SL SZ
 TZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK
 ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM
 GA GN GW ML MR NE SN TD TG

APPLICATION INFO.: WO 2000-US14679 A 20000526
 PRIORITY INFO.: US 1999-60/137,126 19990528

=> d l11 ibib kwic 2

L11 ANSWER 2 OF 5 PCTFULL COPYRIGHT 2006 Univentio on STN
 ACCESSION NUMBER: 2002070741 PCTFULL ED 20020926 EW 200237
 TITLE (ENGLISH): METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR
 DETERMINING THE BIOLOGICAL EFFECT AND/OR ACTIVITY OF
 DRUGS, CHEMICAL SUBSTANCES AND/OR PHARMACEUTICAL
 COMPOSITIONS BASED ON THEIR EFFECT ON THE METHYLATION
 STATUS OF THE DNA
 TITLE (FRENCH): PROCEDES, SYSTEMES ET PRODUITS PROGRAMMES INFORMATIQUES
 PERMETTANT DE DETERMINER L'EFFET BIOLOGIQUE ET/OU
 L'ACTIVITE DE MEDICAMENTS, DE SUBSTANCES CHIMIQUES
 ET/OU DE COMPOSITIONS PHARMACEUTIQUES, SUR LA BASE DE
 LEUR EFFET SUR L'ETAT DE METHYLATION DE L'ADN
 INVENTOR(S): OLEK, Alexander, Schroederstrasse 13/2, 10115 Berlin,
 DE;
 PATENT ASSIGNEE(S): BERLIN, Kurt, Marienkaeferweg 4, 14532 Stahnsdorf, DE
 EPIGENOMICS AG, Kastanienallee 24, 10435 Berlin, DE
 [DE, DE]
 AGENT: SCHOHE, Stefan\$, Boehmert & Boehmert,
 Pettenkoferstrasse 20-22, 80336 Muenchen\$, DE
 LANGUAGE OF FILING: English
 LANGUAGE OF PUBL.: English
 DOCUMENT TYPE: Patent
 PATENT INFORMATION:

NUMBER	KIND	DATE

WO 2002070741	A2	20020912

DESIGNATED STATES

W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR
 CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID
 IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD
 MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI
 SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW
 RW (ARIPO): GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
 RW (EAPO): AM AZ BY KG KZ MD RU TJ TM
 RW (EPO): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
 TR
 RW (OAPI): BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
 APPLICATION INFO.: WO 2002-EP2254 A 20020301
 PRIORITY INFO.: US 2001-60/272,484 20010301

DETD . . . since in most of the cases an effective
 drug/treatment has to be found very rapidly,
 Furthermore, such developments currently involve very cost-intensive
 screening procedures
 until a particularly suited compound (often called Jead"-cornpound)
 is found which could
 then serve as a chemical basis for an effective treatment.

of course, alternative
 treatments for already known diseases. Furthermore, the need exists for
 a reliable, cost-
 effective, fast and autornateable method for screening such
 new effective compounds.

2. Screening for new biologically active compounds using
 ,combinatorial chemistry"
 The method of combinatorial chemistry is described as a profound change
 in the. . . AT, et
 al. ,Search and discovery strategies for biotechnology: the paradigm
 shift." Microbiol Mol
 Biol Rev 2000 Sep;64(3):573-606)
 In general, combinatorial chemistry involves screening of a
 specific (or a set of specific)
 compound with a vast number of otential biological candidate substances
 for example, pro-
 p
 teins) that might interact with the compound. Interacting partners are
 selected and used for
 further screening. Initially screened and isolated
 compounds can be used as Jead"-
 compounds for the development of biologically active compounds useful
 for treatment of dis-
 eases.

potential utility for the treatment of
 conditions involving cerebral hypoxia." Life Sci 2000 Aug 1
 1;67(12):1389-96) describe the
 use of HTS (high-throughput screening) libraries for
 reevaluation of the pharmacologic prop-
 erties of substances such as extract from the leaves of Ginkgo biloba
 Linne (form.. . .

Although the method of combinatorial chemistry exhibits several
 advantages in comparison to
 conventional methods for screening for biologically effective
 compounds which are useful for
 the development of new medicaments, there are still several drawbacks
 associated with this
 method.

The screening of a combinatorial chemistry library involves a

screening for a multitude of different possible reactions and/or interactions of the compounds to be analysed with the interacting partners. Therefore, the reaction conditions are assumed crucial for the result of the

screening. In particular, a compound which shows an interaction with a target in such a combinatorial assay in vitro might exhibit. . . prediction of an effective compound very difficult and unreliable. As a result, an interaction in an in vitro combinatorial chemistry screening assay can always only give a hint for a potential biological function of the screened compound in vivo.

As a result, combinatorial chemistry screening involves a necessary second step; once a potential target/lead compound has been identified/found, the biological effect still has to be confirmed/determined in an in vivo context. This makes compound identification using this method unpredictable, slow and costly.

only individual regions up to approximately 3000 base pairs in length have been examined, and an overall examination of cells to identify thousands of possible methylation events is not possible. However, this method is not capable of reliably analyzing minute fragments from small. . .

Burkitt's lymphoma: molecular analysis of primary tumor tissue; Blood 1998 Feb 15;91(4):13 73-8 1)
- Wilms tumor (Kleyanova EV et al. "Identification of a tumor-specific methylation site in the Wilms tumor suppressor gene"; Oncogene 1998 Feb 12;16(6):713-20)
- Prader-Willi/Angelman syndrome (Zeschnigh et al. "Imprinted. . .

The present invention uses the modifications in the methylation pattern of the DNA for

screening of biologically effective substances. In general, the invention uses the fact that the biological effect of a potentially biologically effective drug, . . .

The invention has several advantages in comparison to other screening methods; in particular combinatorial chemistry. First, the reaction conditions of the drug, chemical substance or pharmaceutical composition with the biological test system. . .

Second, the analysis of the methylation pattern of the DNA allows screening of the in vivo effect of the substance in a one-step procedure using one controllable reaction (namely, the bisulfite treatment in order. . .

Thirdly, screening for potential lead-compounds becomes less time consuming and less costly, since the complete screening and analysis procedure can be automated.

Fourth, the inventive method allows the inclusion of personal data into the selection/analysis

procedure which allows for a personalised screening of drugs, chemical substances or pharmaceutical compositions.

In a further preferred method according to the invention, the biological samples A and B are obtained from the identical individual, tissue, cell or other biological material.

or
pharmaceutical composition. This allows the use of the inventive method to monitor and/or modify an already employed treatment regimen and to screen for unwanted side effects of the initially employed drugs, chemical substances or pharmaceutical compositions which leads to a strictly ,personalised" medicament. . .

cytosine methylation sites is analysed in parallel. The analysis of a multitude of sites in parallel allows for both an effective screening and a statistically highly relevant result of the method.

one to directly connect the tested drug, chemical substance or pharmaceutical composition with an effect on those genes and therefore allow the identification of possibly valuable new lead compounds as well as therapeutically important compounds.

In one embodiment, the method of the invention is characterised in that the identical biological sample, different biological samples or a combination thereof is used in steps a) and/or b).

Example 2

Screening of a peptide library

A peptide library was prepared in a 96-well culture plate which contained overlapping peptide fragments derived from the. . .

micro arrays representing 256 CpG and the methylation statuses of the CpGs were analysed according to a method described in Example 3

Screening of a fractionated plant crude extract

In order to analyse the anti-metastatic effect of *Celosia argentea* seed extracts (CAE), which have traditionally. . .

(CD47 anti-gen (Rh-related antigen, integrin-associated signal transducer); CD48 (CD48 antigen (B-cell membrane protein); CD53 (CD53 antigen); CD59 (CD59 antigen p18-20 (antigen identified by monoclonal antibodies 16.3A5, EJ16, EBO, EL32 and G344); CD63 (CD63 antigen (melanoma I antigen); CD68 (CD68 antigen); CD7 (CD7 antigen. . . LAMA4 (Laminin, alpha 4); LAMA5 (Laminin, alpha 5); LY64 (Lymphocyte antigen 64 (mouse) homolog, radioprotective, 105kD); LYZ (Lysozyme (renal amyloidosis)); MDUI (Antigen identified by monoclonal antibodies 4F2, TRAI.10, TROP4, and T43); MET (Met proto-oncogene (hepatocyte growth factor

receptor)); MIC2 (Antigen identified by monoclonal antibodies 12E7, F21 and 013); MICA (MHC class I polypeptide-related sequence A); MME (Membrane metallo-endopeptidase (neutral endopeptidase, enkephalinase,

I (BCL2-related)); MCM4 (Minichromosome maintenance deficient (S. cerevisiae) 4); MEKK3 (MAP/ERK kinase kinase 3); MEKK5 (MAP/ERK kinase kinase 5); MKI67 (Antigen identified by monoclonal antibody Ki-67); MSTIR (Macrophage stimulating 1 receptor (c-met-related tyrosine kinase)); NCK1 (NCK adaptor protein 1); NEK3 (NIMA (never. . . .

of split); AFD I (Acrofacial dysostosis 1, Nager type); AGC I (Aggrecan I (chondroitin sulfate proteoglycan 1, large aggregating proteoglycan, antigen identified by monoclonal antibody AO 1 22)); AH02 (Albright hereditary osteodystrophy-2); A1113 (Amelogenesis imperfecta 3, hypoplasia or hypoplastic type); ALX3 (Aristaless-like homeobox. . . .

related to AF4); LYLI (Lymphoblastic, leukemia derived sequence 1); MAFG (V-maf musculoaponeurotic fibrosarcoma (avian) oncogene family, protein G); MAX (MAX protein); MDM2 (Mouse double minute 2, human homolog of; p53-binding protein); MHC2TA (MHC class II transactivator); MKI67 (Antigen identified by monoclonal antibody Ki-67); MNDA (Myeloid cell nuclear differentiation antigen); MSXI (Msh (Drosophila) homeo box homolog I (formerly homeo box 7));. . . .

integrin-associated signal transducer)); CD5 (CD5 antigen (p56-62)); CD53 (CD53 antigen); CD58 (CD58 antigen, (lymphocyte function-associated antigen 3)); CD59 (CD59 antigen p18-20 (antigen identified by monoclonal antibodies 16.3A5, EJ16, EJ30, EL32 and G344)); CD5L (CD5 antigen-like (scavenger receptor cysteine rich family)); CD6 (CD6 antigen);. . . .

LYN (V-src-1 Yamaguchi sarcoma viral related oncogene homolog); LYZ (Lysozyme (renal amyloidosis))-; M1SI (Membrane component, chromosome 1, surface marker I (400 glycoprotein, identified by monoclonal antibody GA733)); MAB21L1 (Mab-21 (C. elegans)-like 1); MACAM1 (Mucosal addressin cell adhesion molecule-1); MADHI (MAD (mothers against decapentaplegic, Drosophila). . . . MCC (Mutated in colorectal cancers); MCF2 (MCF.2 cell line derived transforming sequence); MCP (Membrane cofactor protein (CD46, trophoblast-lymphocyte cross-reactive antigen)); MDF1 (Antigen identified by monoclonal antibody A-3A4); MDH2

(Malate dehydrogenase 2, NAD (mitochondrial)); MDUI (Antigen identified by monoclonal antibodies 4172, TRALIO, TROP4, and T43); MEI (Malic enzyme 1, soluble); ME2 (Malic enzyme 2, mitochondrial); MEKKI (MAP/ERK kinase kinase. . . MEMOI (Methylation modifier for class I HLA); MENI (Multiple endocrine neoplasia 1); MEPIA (Meprin A, alpha (PABA peptide hydrolase)); MER2 (Antigen identified by monoclonal antibodies 1D12, 2177); MFAP2 (Microfibrillar-associated protein 2); MFAP4 (Microfibrillar-associated protein 4); MFTS (Migraine, familial typical, susceptibility to); MGCT (MGI); MGP (Matrix Gla protein); MHC2TA (MHC class II transactivator); MIC2 (Antigen identified by monoclonal antibodies 12E7, F21 and 013); MIC5 (Antigen identified by monoclonal antibody RI); MIC7 (Antigen identified by monoclonal antibody 28 7); MICA (MHC class I polypeptide-related sequence A); MIF (Macrophage migration inhibitory factor (glycosylation-inhibiting factor)); MIG (Monokine induced. . .
 .
 (Uridine phosphorylase); UPK1B (Uroplakin 113); UROD (Uroporphyrinogen decarboxylase); UROS (Uroporphyrinogen III synthase (congenital erythropoietic porphyria)); USH2A (Usher syndrome 2A (autosomal recessive, mild)); USP7 (Ubiquitin specific protease 7 (herpes virus-associated)); VASP (Vasodilator-stimulated phosphoprotein); VCAM 1 (Vascular cell adhesion molecule 1); VDAC 1 (Voltage-dependent anion. . .
 .
 CD48 (CD48 antigen (B-cell membrane protein)); CD53 (CD53 antigen); CD58 (CD58 antigen, (lymphocyte function-associated antigen 3)); CD59 (CD59 antigen p18-20 (antigen identified by monoclonal antibodies 16.3A5, EJ16, EJ30, EL32 and G344)); CD63 (CD63 antigen (melanoma 1 antigen)); CD68 (CD68 antigen); CD7 (CD7 antigen. . . gene 3); LY64 (Lymphocyte antigen 64 (mouse) homolog, radioprotective, 105kD); LYZ (Lysozyme (renal amyloidosis)); MAPIB (Microtubule-associated protein 113); MDUI (Antigen identified by monoclonal antibodies 4172, TRALIO, TROP4, and T43); MIC2 (Antigen identified by monoclonal antibodies 12E7, F21 and 013); MICA (MHC class I polypeptide-related sequence A); MME (Membrane metallo-endopeptidase (neutral endopeptidase, enkephalinase, CALLA, . . .
 melanogaster muscleblind B protein); MDM2 (Mouse double minute 2, human homolog of, p53-binding protein); MHC2TA (MHC class II transactivator); MKI67 (Antigen identified by monoclonal antibody Ki-67); MNDA (Myeloid cell nuclear differentiation antigen); MSX1 (Msh (Drosophila) homeo box homolog 1 (formerly homeo box 7)); MTHFD. . .
 .
 member 3)); LYN (V-src-1 Yamaguchi sarcoma viral related oncogene homolog); MIS 1 (Membrane component, chromosome 1, surface marker I

(40kD glycoprotein, identified by monoclonal antibody GA733)); M4SI (Membrane component, chromosomal 4, surface marker (35kD glycoprotein)); MADH4 (MAD (mothers against decapentaplegic, Drosophila) homolog. . . oncogene: family, protein K); MASI (MASI oncogene); MAX (MAX protein); MCC (Mutated in colorectal cancers); MCF2 (MCF.2 cell line derived transforming sequence); MDM2 (Mouse double minute 2, human homolog of-, p53-binding protein); MEL (Mel transforming oncogene (derived from cell line NK14)- RAB8 homolog); MELLI (Mel. . . member 1)); LTB (Lymphotoxin beta (TNF superfamily, member 3)); MIS I (Membrane component, chromosome 1, surface marker I (40kD glycoprotein, identified by monoclonal antibody GA733)); M4SI (Membrane component, chromosomal 4, surface marker (35kD glycoprotein)); MADH4. (MAD (mothers against decapentaplegic, Drosophila) homolog 4);. . .

CLMEN. . . according to any of claims I to 4, characterised in that the biological samples A and B are obtained from the identical individual, tissue, cell or other biological material. . Method according claim 5, characterised in that the biological samples A. and B. . .

28 Method according to any of claims I to 27, characterised in that the identical biological sample, different biological samples or a combination thereof is used in steps a) and/or b).

=> d his

(FILE 'HOME' ENTERED AT 15:06:58 ON 20 SEP 2006)

FILE 'CAPLUS' ENTERED AT 15:07:09 ON 20 SEP 2006

L1 21 S HAUSP AND MDM2
L2 6 S L1 NOT PY>2004
L3 40 S USP7
L4 8 S L3 AND MDM2

FILE 'PCTFULL' ENTERED AT 15:12:56 ON 20 SEP 2006

L5 37 S USP7
L6 34 S HAUSP
L7 59 S L6 OR L5
L8 18 S MDM2 AND L7
L9 532010 S SCREEN? OR IDENT?
L10 18 S L9 AND L8
L11 5 S L10 NOT PY>2002

FILE 'REGISTRY' ENTERED AT 15:17:14 ON 20 SEP 2006

L12 1 S E4
E "HAUSP"/CN 25
E "USP7"/CN 25
E "USP 7"/CN 25
E "USP-7"/CN 25

FILE 'MEDLINE' ENTERED AT 15:19:32 ON 20 SEP 2006

L13 39 S HAUSP OR (USP () 7)
L14 55 S HAUSP OR (USP7)

L15 2699 S MDM2
L16 18 S L15 AND L14
L17 1 S L16 NOT PY>2002

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ACCESSION NUMBER: 2002:312567 CAPLUS
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TITLE: Deubiquitination of p53 by HAUSP is an important pathway for p53 stabilization
AUTHOR(S): Li, Muyang; Chen, Delin; Shiloh, Ariel; Luo, Jianyuan; Nikolaev, Anatoly Y.; Qin, Jun; Gu, Wei
CORPORATE SOURCE: Institute for Cancer Genetics, and Department of Pathology, College of Physicians b Surgeons, Columbia University, New York, NY, 10032, USA
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AB The p53 tumor suppressor is a short-lived protein that is maintained at low levels in normal cells by Mdm-mediated ubiquitination and subsequent proteolysis. Stabilization of p53 is crucial for its tumor suppressor function. However, the precise mechanism by which ubiquitinated p53 levels are regulated in vivo is not completely understood. By mass spectrometry of affinity-purified p53-associated factors, the authors have identified herpesvirus-associated ubiquitin-specific protease (HAUSP) as a novel p53-interacting protein. HAUSP strongly stabilizes p53 even in the presence of excess Mdm2, and also induces p53-dependent cell growth repression and apoptosis. Significantly, HAUSP has an intrinsic enzymic activity that specifically

deubiquitinates p53 both in vitro and in vivo. In contrast, expression of a catalytically inactive point mutant of HAUSP in cells increases the levels of p53 ubiquitination and destabilizes p53. These findings reveal an important mechanism by which p53 can be stabilized by direct deubiquitination and also imply that HAUSP might function as a tumor suppressor in vivo through the stabilization of p53.

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